Annual Examination 2014-15 | **PHYSICS** | Hyderabad Board

Section-A

Multiple Choice Questions (MCQ's)

Q-01: Choose the correct answer for each from the given option.

(i) If the function of lever is between the effort and weight, it is a ______ class lever.
(a) first (b) econd (c) Third (d) none of these

(ii) Power is defined as:
(a) Rate of change of Position. (b) Rate of change of force
(c) Time rate of doing work (d) none of these

(iii) The centripetal force is always directed to ______
(a) Towards the centre of circle (b) along the direction of motion
(c) Away from the centre of circle (d) none of these

(iv) The second condition of equilibrium state that:
(a) $\sum P = 0$ b) $\sum \tau = 0$ (c) $\sum F = 0$ (d) oth (b) nd (c)

(v) if Fx and Fy are rectangular components of a force F, then tan θ = ______
(a) $\frac{Fx}{Fy}$ (b) $\frac{Fy}{Fx}$ (c) $Fx + Fy$ (d) $Fx - Fy$

(vi) Frication can be reduced by using ball bearings, because they ______
(a) Make the surface plane (b) make the surface grassy
(c) Convert sliding friction into rolling friction
(d) have no friction of their own

(vii) 10^{-9} second is called ______
(a) Desisecond (b) Millisecond (c) Microsecond (d) Nonosecond

(viii) Ibn-ul-Haithem contributed toward ______ physics.
(a) Nuclear (b) Oceanographic (c) Optical (d) Thermal

(ix) Rain drop are formed spherical in shape due to one of the following properties of water.
(a) Surface tension (b) Viscosity (c) Pressure (d) Air resistance

(x) An element whose atoms have same atomic number but different mass number are called
(a) Molecule (b) Secondary Element (c) Isotopes (d) None of these

(xi) At S.T.P pure water boils at ______.
(a) 0 K (b) 100K (c) 273K (d) None of these

(xii) if a current is flowing through a solenoid, then the north pole of the solenoid can be found by using ______ rules.
(a) Right hand (b) Left hand (c) Faraday's (d) Lenz's

(xiii) If the length of the pendulum becomes four times, it's time period will become.
(a) Four times (b) twice (c) Three times (d) Eight times

(xiv) the substance used a medium between the two plates of a capacitor is known as ______
(a) Conductor (b) Emi Conductor (c) di-electric (d) electrolyte

(xv) the image formed in a plane mirror is ______
(a) Real (b) Inverted (c) Virtual and erect
(d) Real and inverted

(xvi) A convex lens is ______
(a) Thinnerat the centre (b) Thicker at the centre
(c) A diverging lens (d) plane throughout

(xvi) According to Quantum theory photons are
(a) Waves (b) Electromagnetic waves
(c) Energy packets (d) Particles